Amendments To The Abstract:

In the English translation document, please add the section heading and paragraph at page 18 line 1, as follows:

--ABSTRACT

The invention relates to a novel algebraic method wherein sub-groups of subscribers that spectrally influence each other, in a group of broadband subscriber connections or transmission channels connected to an intelligent network node in a star-shaped manner are classified by observing status variations in operation or in test phases of the individual transmissions, and the spectral influence relation or interference relation is identified with or without using specific test signals during the operation of the network node, without interrupting the data transmissions. The fundamental parameters of the data transmission methods of all of the connected subscribers are optimized from the information obtained in this way, for maximum operator use.